

# FOR ZONING

Industrial Tower and Wireless.

REPARED FOR:

40 LONE STREET MARSHFIELD, MA 02050 781-319-1000



BUILDING 20 NORTH, SUITE 3090 N. ANDOVER, MA 01845 FAX: [978] 336-558

### **CONCORD MA**

## 1400 LOWELL ROAD CONCORD, MA 01742

# Ware Hall MAP DATA ©2015 GOOGLE VICINITY MAP SCALE: N.T.S.

DIRECTIONS TO SITE:

HEAD NORTH ON LONE ST TOWARD MA-139 E, TURN LEFT ONTO MA-139 W, TURN RIGHT ONTO THE RTE 139 RAMP, MERGE ONTO MA-3 N, USE THE LEFT 2 LANES TO TAKE EXIT 20A FOR I-93 S TOWARD I-95/CANTON, MERGE ONTO I-93, KEEP RIGHT TO CONTINUE ON I-93 S, CONTINUE ONTO US-1 S, CONTINUE ONTO I-95 N, TAKE EXIT 29B TO MERGE ONTO MA-2 W TOWARD ACTON/FITCHBURG, KEEP LEFT TO CONTINUE ON CONCORD TURNPIKE, CONTINUE ONTO MA-2 W/CAMBRIDGE TURNPIKE, TURN RIGHT ONTO WALDEN ST, TURN RIGHT ONTO MA-62 E, TURN LEFT TO STAY ON MA-62 E, CONTINUE STRAIGHT ONTO MONUMENT SQUARE, TURN LEFT ONTO MA-62 W, TURN RIGHT ONTO LOWELL RD.

DESTINATION WILL BE ON THE RIGHT. 1400 LOWELL RD, CONCORD, MA 01742

#### **CONSULTANT TEAM**

#### PROJECT ENGINEER

HUDSON DESIGN GROUP, LLC 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586

#### MEP ENGINEER

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#### PROJECT SUMMARY

SITE NAME: CONCORD MA

SITE ADDRESS: 1400 LOWELL ROAD

CONCORD, MA 01742

APPLICANT: INDUSTRIAL TOWER AN

INDUSTRIAL TOWER AND WIRELESS, LLC

40 LONE STREET MARSHFIELD, MA 02050

ZONING DISTRICT: RESIDENTIAL AA

ZONING JURISDICTION: TOWN OF CONCORD, MA

**LATITUDE:** N42° 30' 1.96"

LONGITUDE: W71' 22' 3.50"

PARCEL ID: 1533

PROPERTY OWNER: MIDDLESEX SCHOOL P.O. BOX 9122

CONCORD, MA 01742

#### SHEET INDEX

SHEET INDEX				
NO.	DESCRIPTION			
T-1	TITLE SHEET			
C-1	SITE PLAN			
C-2	ENLARGED SITE PLAN			
C-3	TREE REMOVAL PLAN			
C-4	RESTORATION PLAN			
C-5	EXISTING DRAINAGE CONDITIONS			
C-6	PROPOSED DRAINAGE CONDITIONS			
A-1	COMPOUND PLAN			
A-2	ELEVATION			
A-3	DETAILS			
A-4	EROSION CONTROL NOTES & DETAIL			



CHECKED BY: JX

APPROVED BY: D

SUBMITTALS						
REV.	DATE	DESCRIPTION	BY			
			+			
			+			
-			+			
			+			
1	10/12/16	REVISED PER COMMENTS	НН			
0	08/09/16	FOR ZONING	HH			

SITE NAME: CONCORD MA

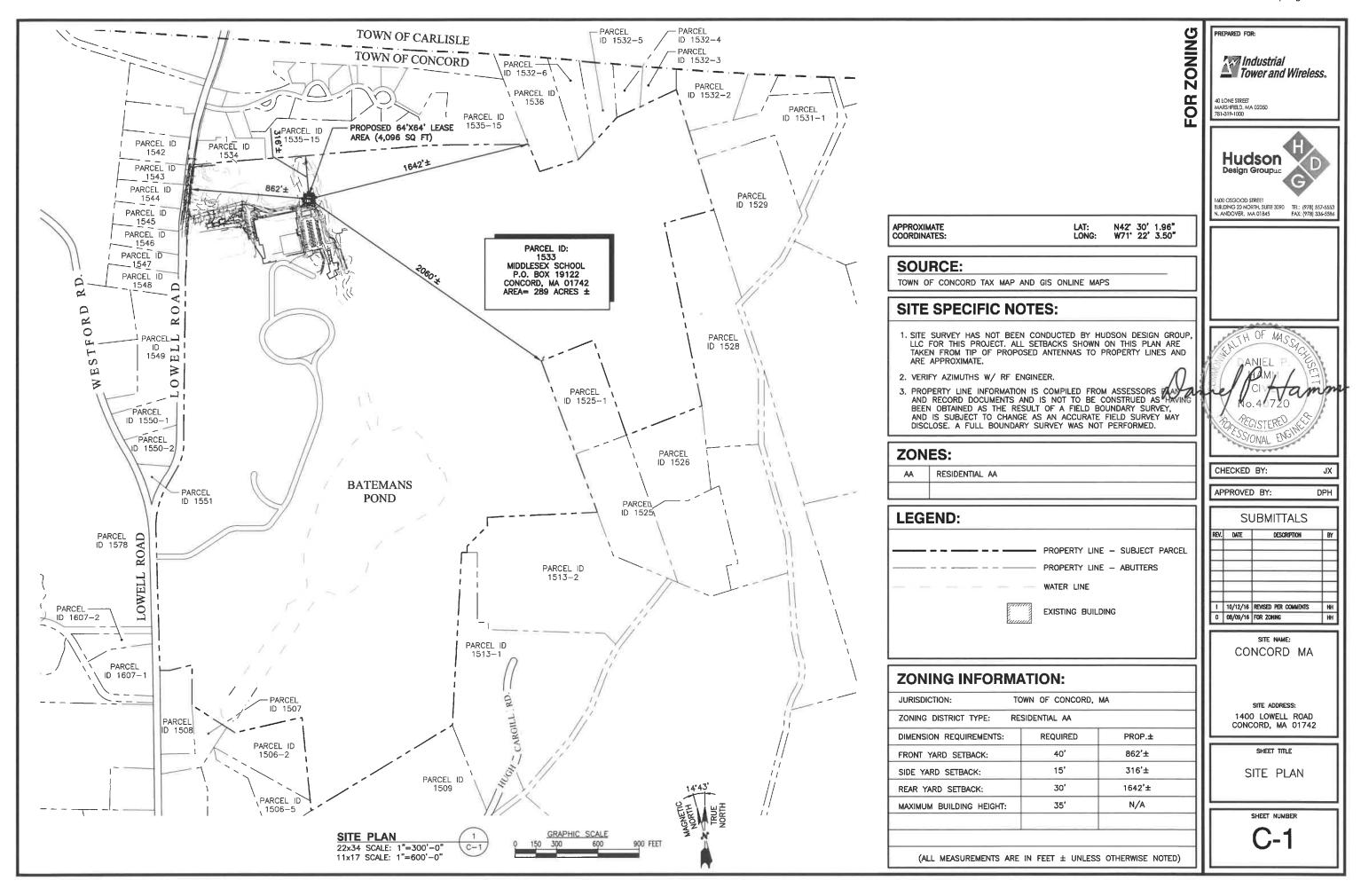
SITE ADDRESS: 1400 LOWELL ROAD CONCORD, MA 01742

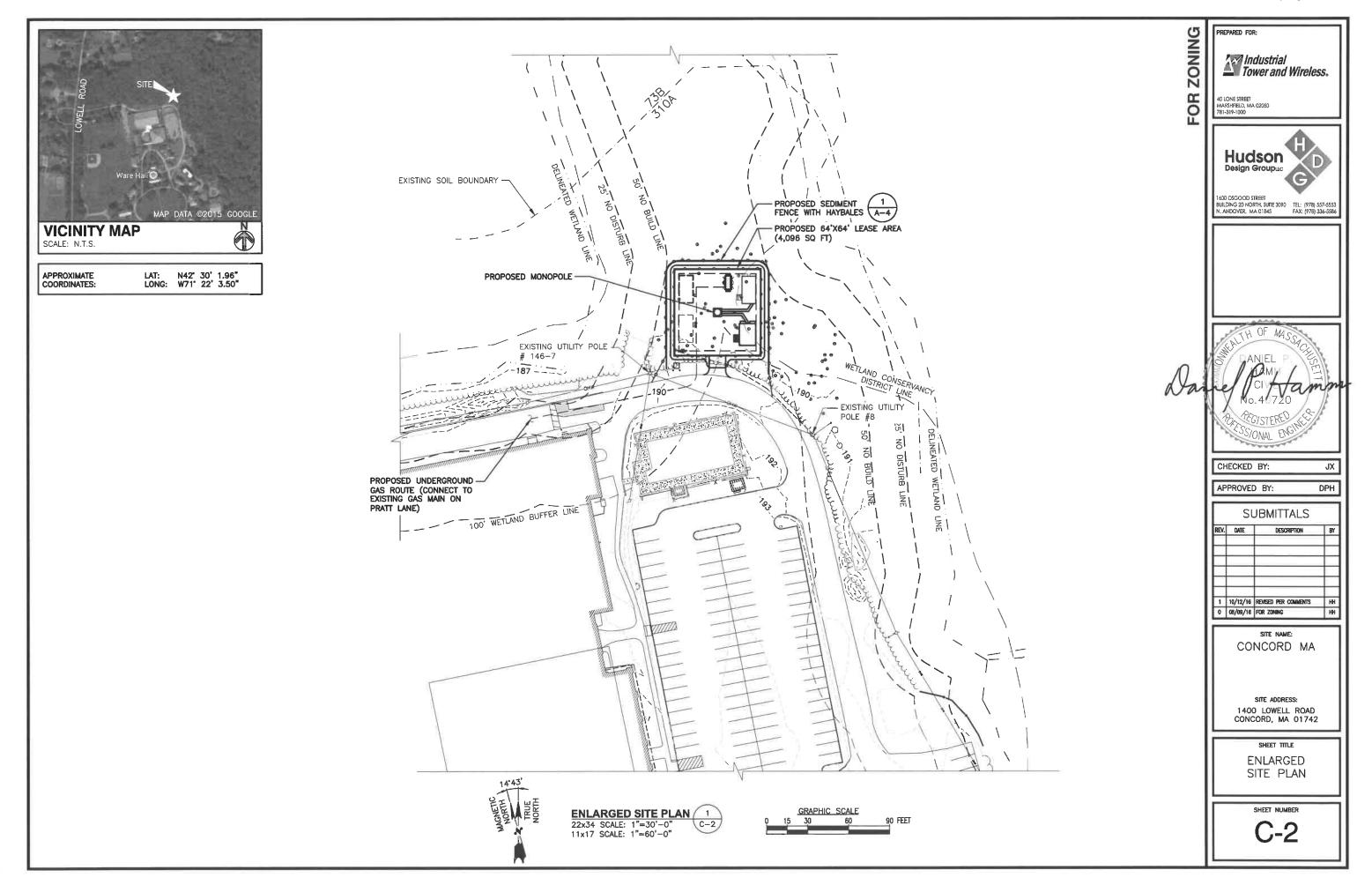
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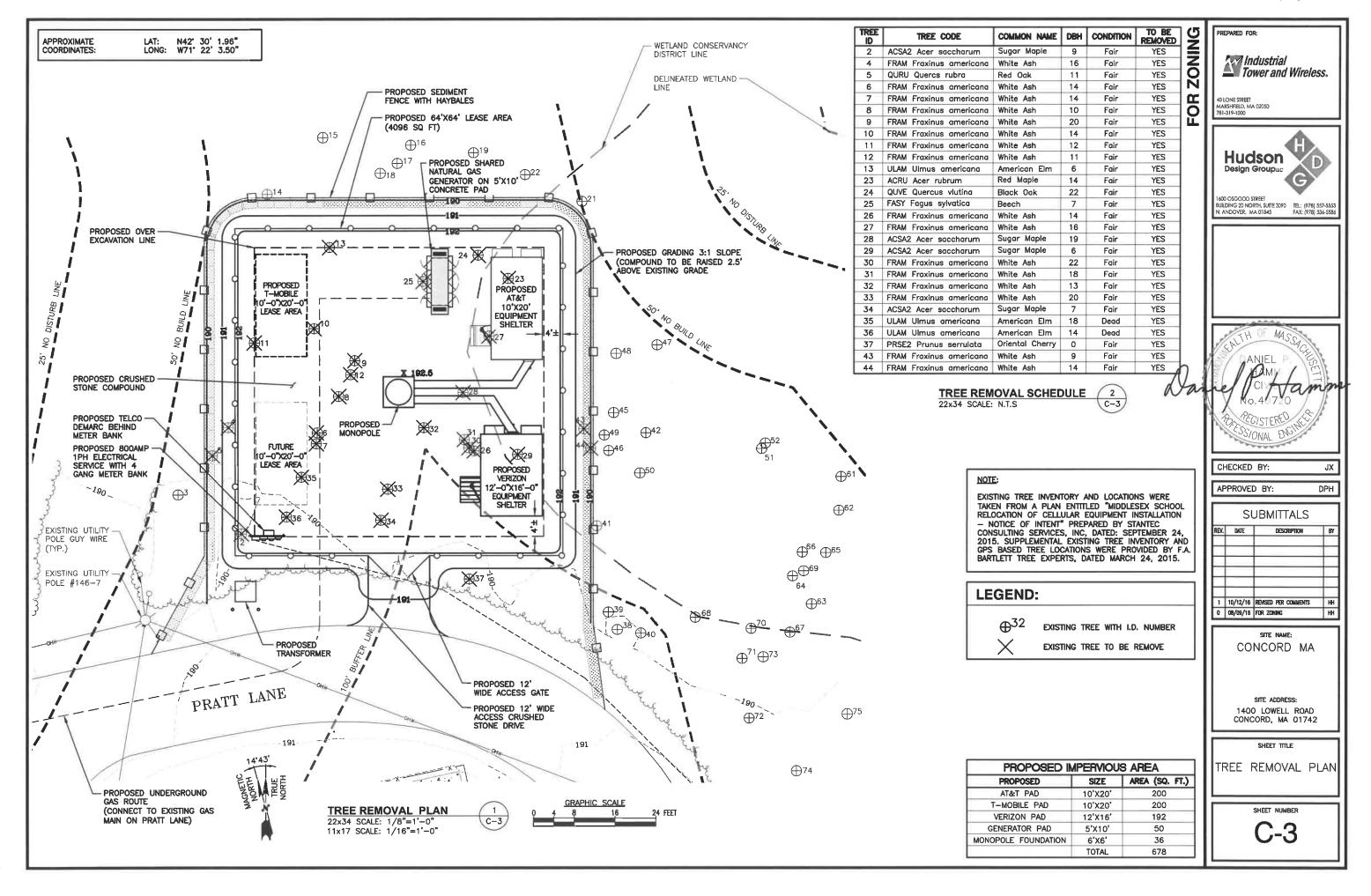
TITLE SHEET

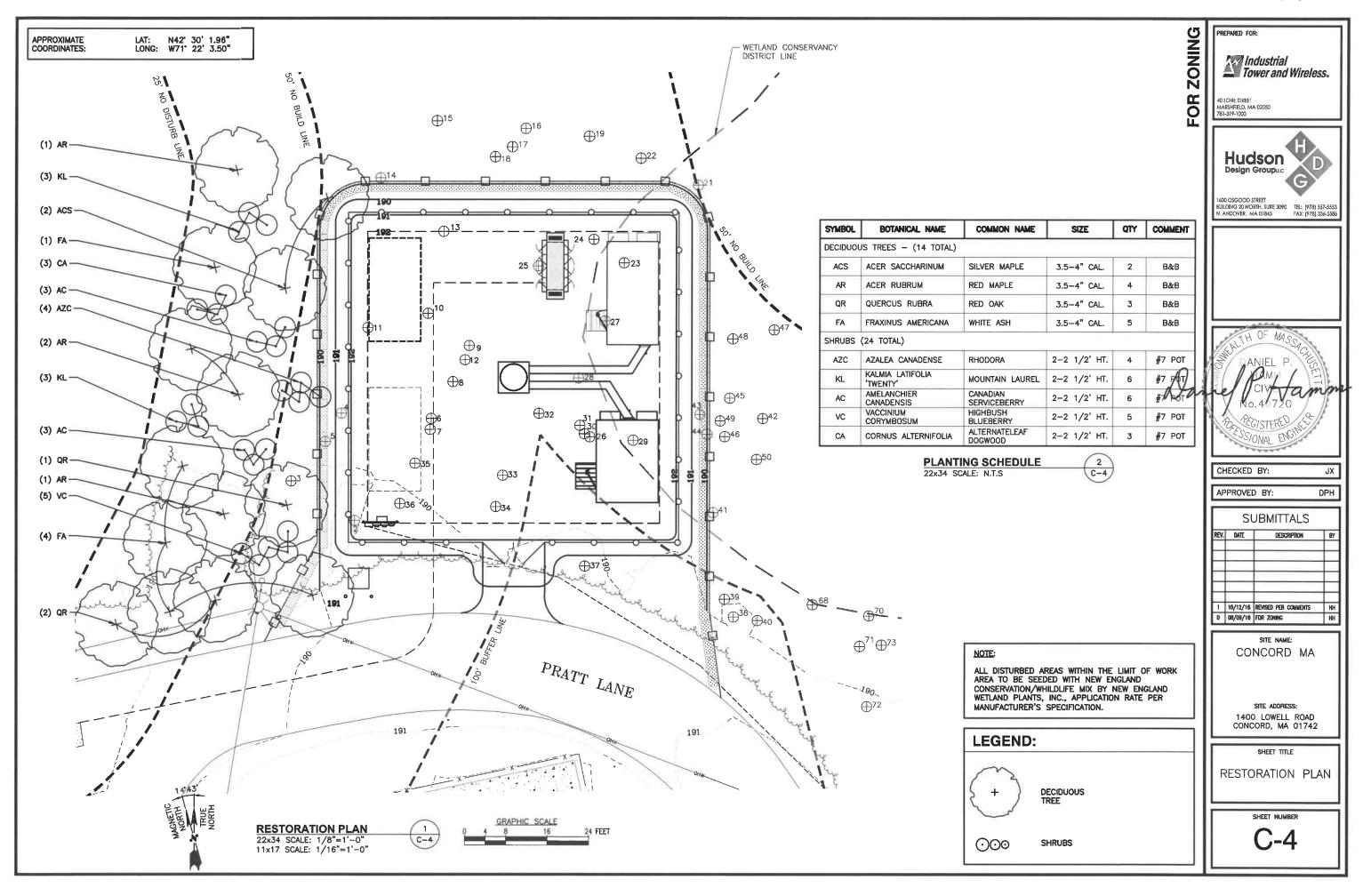
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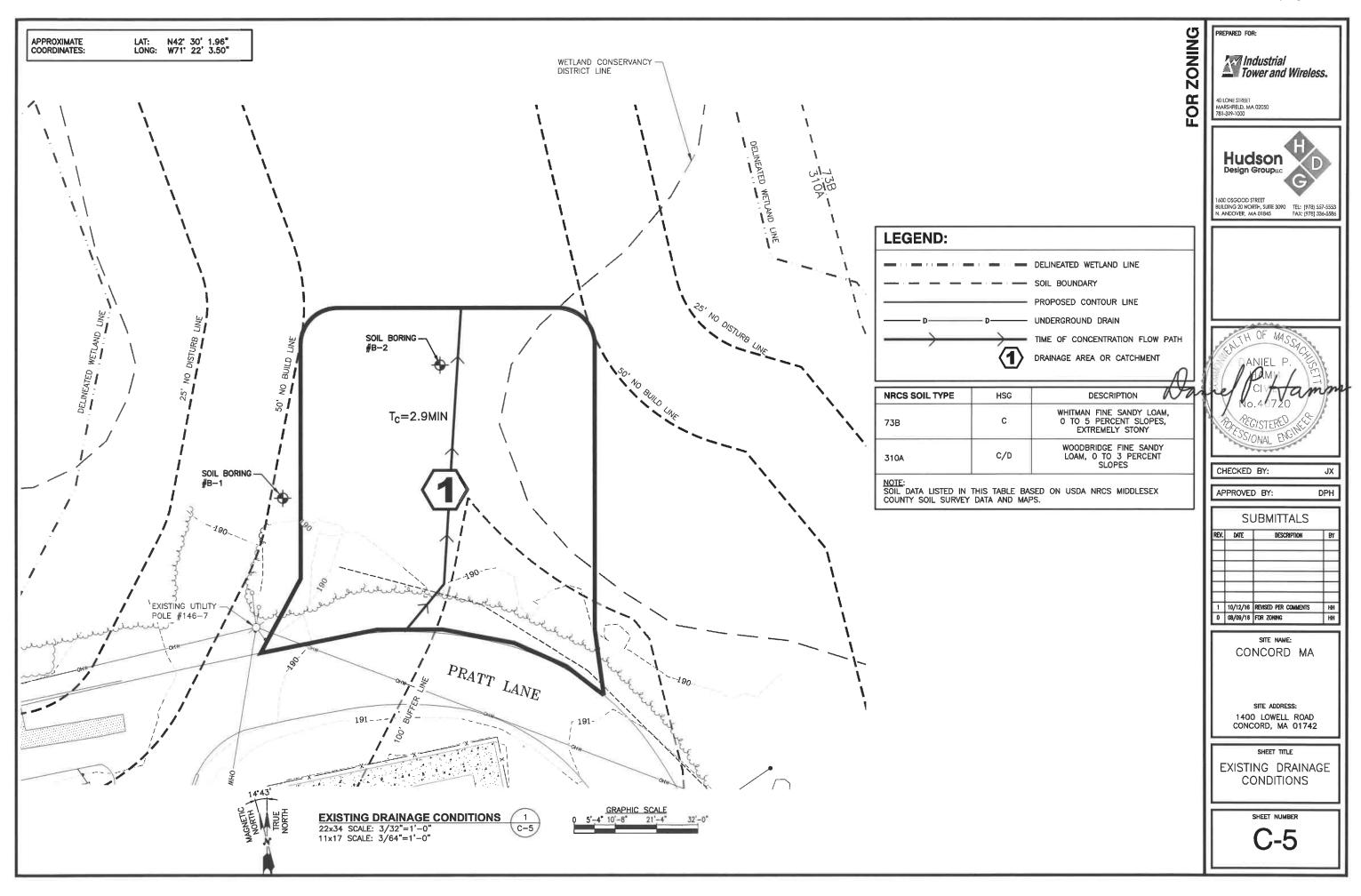
T-1

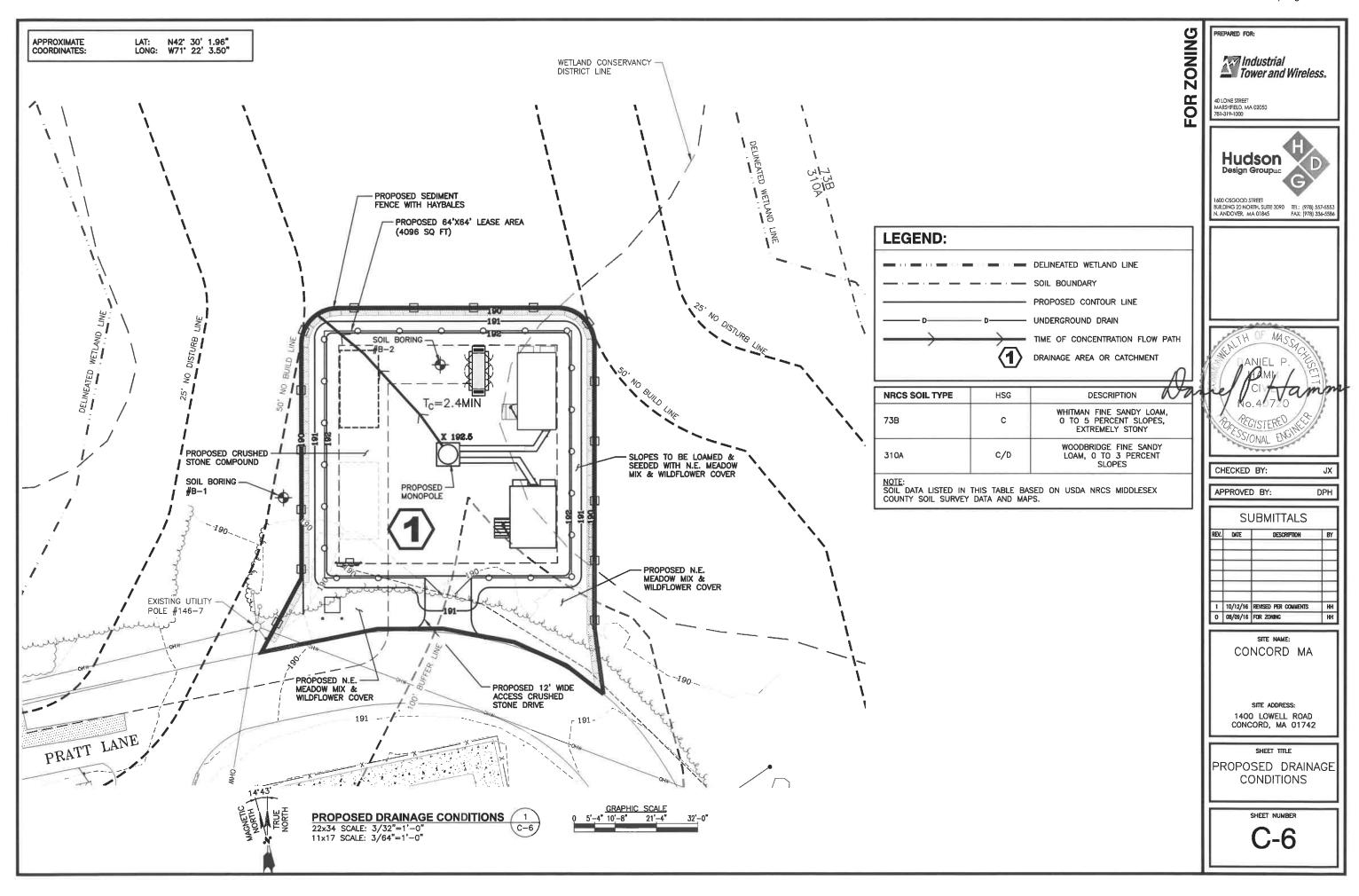


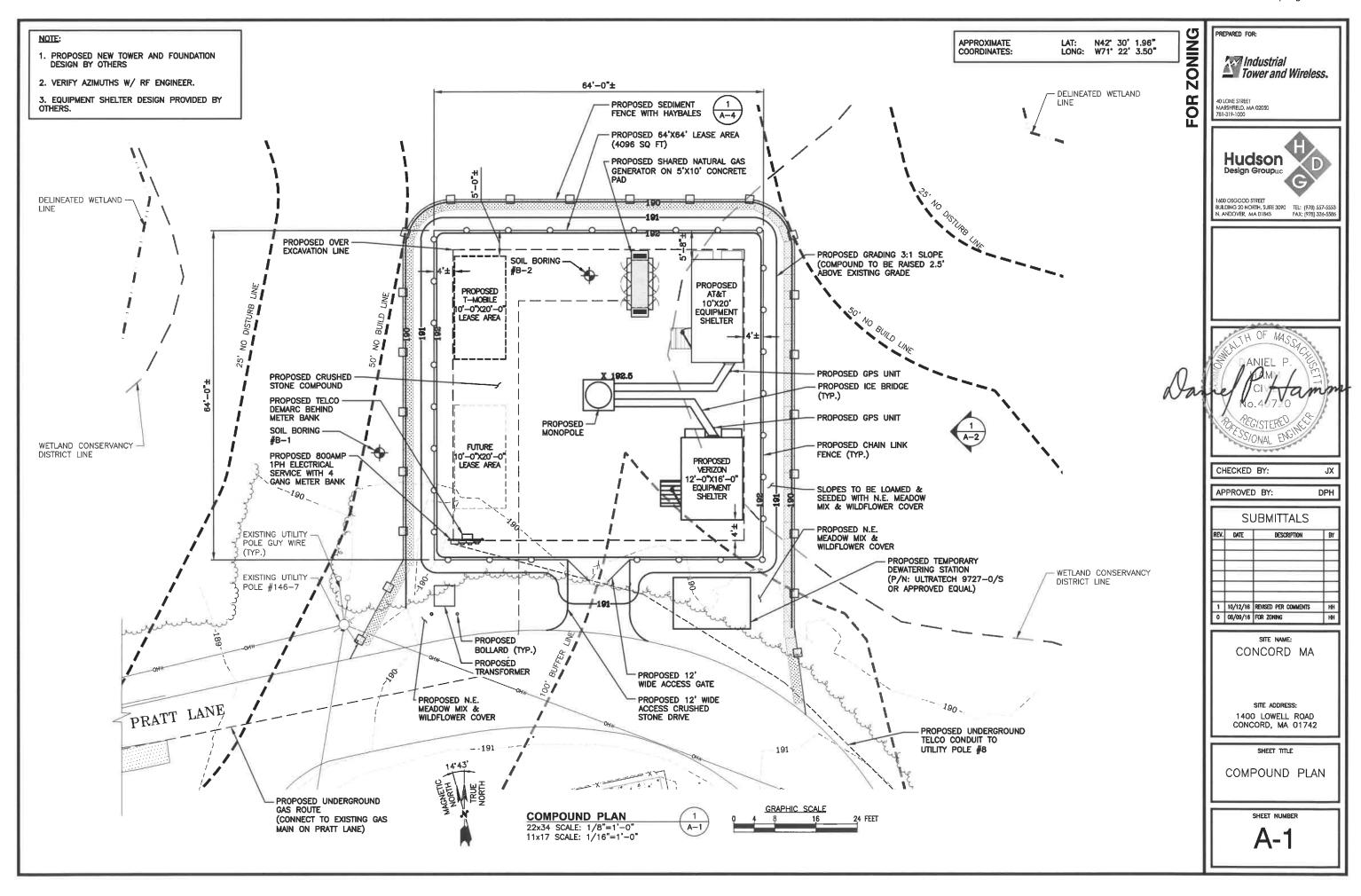


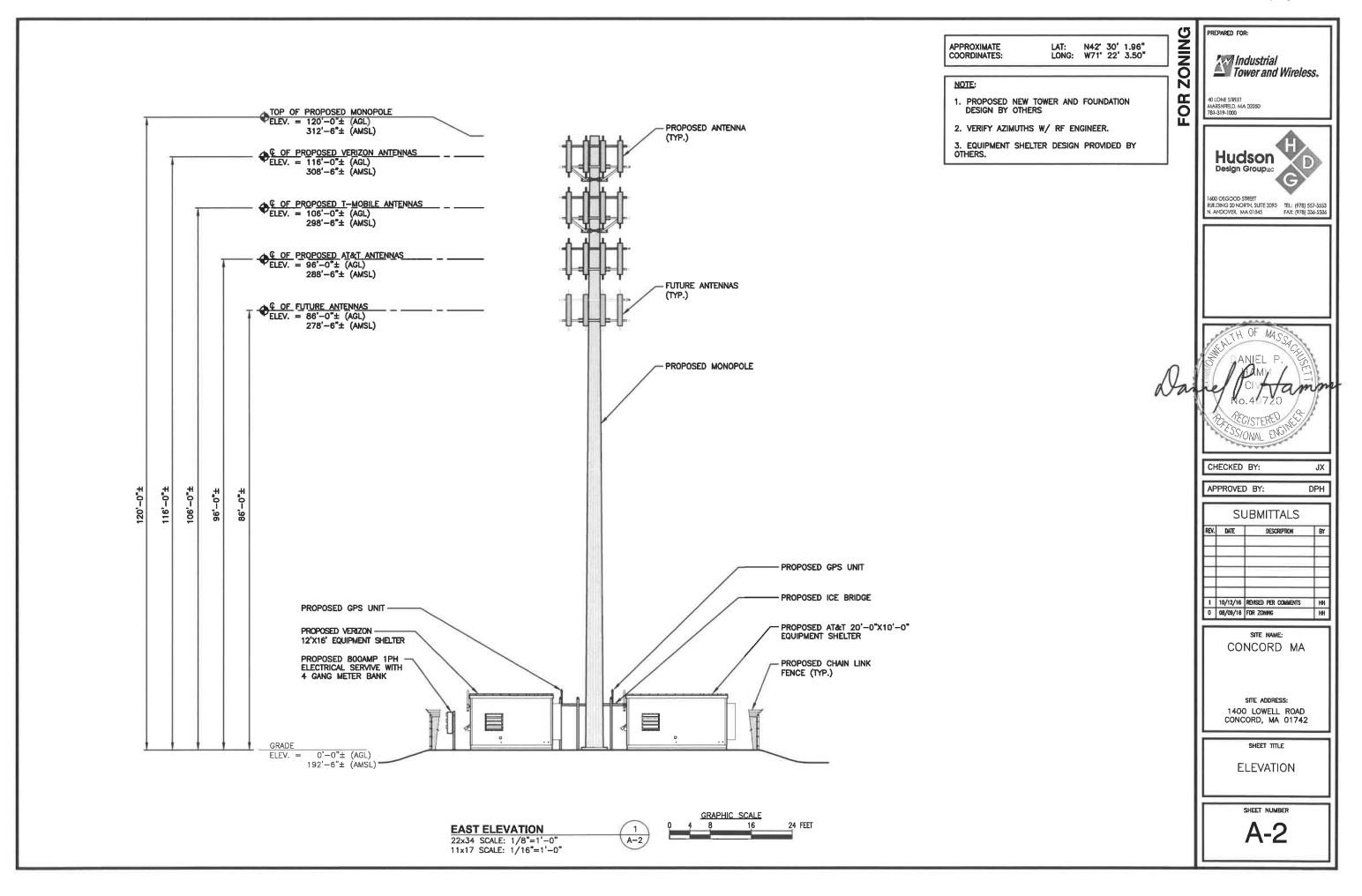


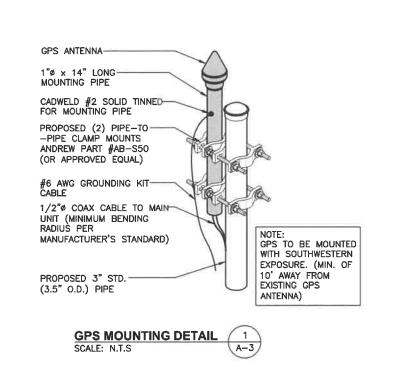


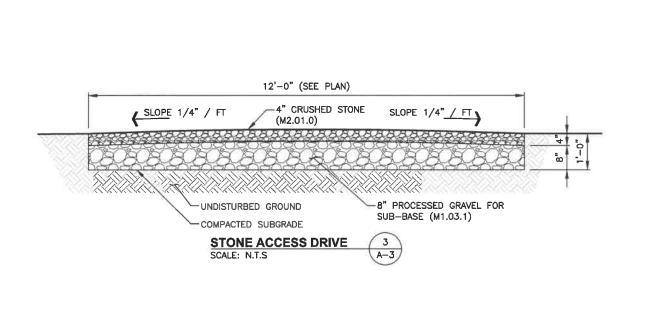


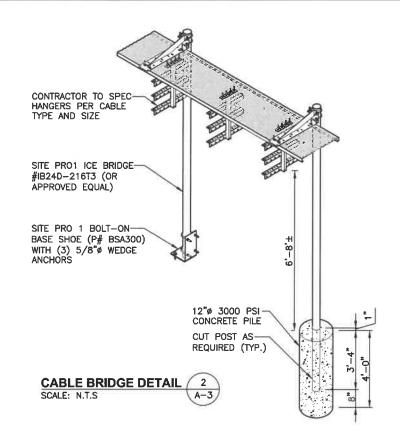


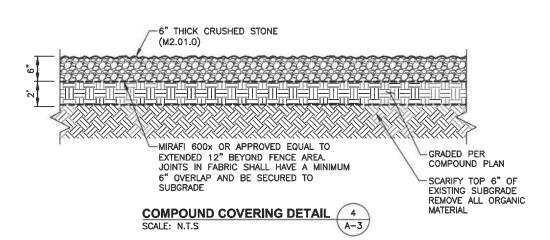












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1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-5553 N. ANDOVER, MA 01845 FAX: (978) 336-5586

CHECKED BY:

APPROVED BY: DPH

JX

SUBMITTALS DESCRIPTION 1 10/12/16 REVISED PER COMMENTS 0 08/09/16 FOR ZONING

> SITE NAME: CONCORD MA

SITE ADDRESS: 1400 LOWELL ROAD CONCORD, MA 01742

SHEET TITLE

**DETAILS** 

SHEET NUMBER

#### **EROSION CONTROL**

#### CONSTRUCTION SEQUENCE

- NOTIFY THE ENVIRONMENTAL REPRESENTATIVE & LOCAL CONCOM AT LEAST ONE WEEK PRIOR TO THE PRE—CONSTRUCTION MEETING.
- COMPLETE A "DIG SAFE" PRIOR TO ANY ON SITE ACTIVITY. REVIEW EVERY 30 DAYS.
- 3. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- 4. CUT, STUMP AND CLEAN & GRUB AREAS OF PROPOSED CONSTRUCTION.
- WOOD CHIPS GENERATED FROM CLEARING ACTIVITIES MAY BE USED AS A TEMPORARY STABILIZATION MEASURE IN ADDITION TO SILT FENCING & HAY RAI FS
- INSTALL HAY BALES TO "BACK UP" SILTATION FENCE ALONG DOWNGRADIENT AREAS.
- EXCAVATE 3-INCH LAYER OF TOP SOIL/ORGANICS FROM WITHIN COMPOUND.
- STOCKPILE EXCAVATED SOILS AS FAR AS POSSIBLE FROM ENVIRONMENTALLY SENSITIVE AREAS.
- 9. EXCAVATE FOR SUBSURFACE UTILITIES.
- 10. ESTABLISH SEDIMENT AND EROSION CONTROLS AROUND ANY STOCKPILE SOILS.
- 11. INSTALL UTILITY SERVICES.
- 12. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, REPAIR TEMPORARY SILT FENCES AND SEDIMENT TRAPS.
- 13. EXCAVATE FOR AND CONSTRUCT TOWER FOUNDATION OR CEMENT CONCRETE PADS.
- NO CONSTRUCTION STORM FLOW OR RUNOFF SHALL BE ALLOWED REACH TO ANY WETLANDS.
- 15. INSTALL WEED CHECK FABRIC OR FILTER FABRIC ON DRY, LEVEL SOIL FOR COMPOUND LIMITS.
- 16. COVER WEED CHECK FABRIC WITH 3-INCH LAYER OF CRUSHED STONE (WITHIN COMPOUND)
- 17. INSTALL ANTENNA TOWER AND COMMUNICATION EQUIPMENT.

#### IMPACT OF STORMWATER DURING CONSTRUCTION ACTIVITY

ALL SEDIMENT CONTROLS, INCLUDING SILTATION FENCES AND HAY BALES MUST BE INSPECTED WEEKLY OR IMMEDIATELY AFTER A STORMWATER RUNOFF GENERATING EVENT. ALL SEDIMENT CONTROLS MUST BE MAINTAINED IN AN EFFECTIVE CONDITION.

IN THE EVENT THAT STORMWATER WITH SEDIMENT IS FLOWING ONTO SURROUNDING PAVEMENT OR ADJACENT BUFFER AREA, THE FOLLOWING MUST BE PERFORMED.

 ADDITIONAL MEASURES MUST BE TAKEN DURING TIMES OF RAIN OR STORMWATER FLOW. THESE INCLUDE THE CESSATION OF ALL CONSTRUCTION ACTIVITY AT TIMES OF "HEAVY RAIN" OR "SIGNIFICANT FLOW" WHICH HAVE THE POTENTIAL TO CAUSE SOIL TRANSPORT.

#### CONSTRUCTION SPECIFICATION - SILT FENCE:

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 3 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- 4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 8 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- 7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

#### MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE—THIRD THE HEIGHT OF THE BARRIER.
- 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND LOAMED & SEEDED. VEGETATED.
- 5. REMOVE ALL SEDIMENTATION CONTROLS AFTER SOIL IS STABILIZED.

#### EROSION CONTROL MEASURES:

- DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE COMMUNICATIONS COMPOUND & RELATED INFRASTRUCTURE.
- HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS OR N.E. MEADOW MIX/WILDFLOWERS ESTABLISHED.
- 3. BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- SOIL OR BACKFILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION AS NECESSARY. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 3 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.
- APPLICATION OF GRASS SEED, AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW. LOAMED & SEEDED AREAS SHALL ONLY APPLY TO AREAS NOT COVERED WITH CRUSHED STONE.

LIMESTONE: FERTILIZER: MULCH: SEED_MIX:	75-100 LBS./1,000 SQ FT RATE RECOMMENDED BY MANU HAY MULCH APPROXIMATELY 3 EROSION CONTROL MATTING IS (SLOPES LESS THAN 4:1) CREEPING RED RESCUE TALL RESCUE REDTOP	TON/ACRE USED LBS./ACRE	UNLES
	(SLOPES GREATER THAN 4:1) CREEPING RED RESCUE TALL RESCUE BIRDSFOOT TREEFOIL	LBS./ACRE 20 20 20 _8	

OPTIONAL: LBS./ACRE
NEW ENGLAND MEADOW MIX 100

48

- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES CAN BE REMOVED AND AS ALLOWED BY CONCOM.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
- 10. NO ILLICIT STORMWATER SHALL OCCUR NOR ANY DEWATERING DISCHARGES SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED WITH MATURE VEGETATION.

